

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims.

1. (Original) An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence at least 95% identical to a sequence selected from the group consisting of:
 - (a) a polynucleotide fragment of SEQ ID NO:X or a polynucleotide fragment of the cDNA sequence included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X;
 - (b) a polynucleotide encoding a polypeptide fragment of SEQ ID NO:Y or a polypeptide fragment encoded by the cDNA sequence included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X;
 - (c) a polynucleotide encoding a polypeptide domain of SEQ ID NO:Y or a polypeptide domain encoded by the cDNA sequence included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X;
 - (d) a polynucleotide encoding a polypeptide epitope of SEQ ID NO:Y or a polypeptide epitope encoded by the cDNA sequence included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X;
 - (e) a polynucleotide encoding a polypeptide of SEQ ID NO:Y or the cDNA sequence included in ATCC Deposit No:Z, which is hybridizable to SEQ ID NO:X, having biological activity;
 - (f) a polynucleotide which is a variant of SEQ ID NO:X;
 - (g) a polynucleotide which is an allelic variant of SEQ ID NO:X;
 - (h) a polynucleotide which encodes a species homologue of the SEQ ID NO:Y;
 - (i) a polynucleotide capable of hybridizing under stringent conditions to any one of the polynucleotides specified in (a)-(h), wherein said polynucleotide does not hybridize under stringent conditions to a nucleic acid molecule having a nucleotide sequence of only A residues or of only T residues.
- 2.-10. (Cancelled).
11. (Original) An isolated polypeptide comprising an amino acid sequence at least 95% identical to a sequence selected from the group consisting of:
 - (a) a polypeptide fragment of SEQ ID NO:Y or the encoded sequence included in ATCC Deposit No:Z;
 - (b) a polypeptide fragment of SEQ ID NO:Y or the encoded sequence included in ATCC Deposit No:Z, having biological activity;
 - (c) a polypeptide domain of SEQ ID NO:Y or the encoded sequence included in ATCC Deposit No:Z;
 - (d) a polypeptide epitope of SEQ ID NO:Y or the encoded sequence included in ATCC Deposit No:Z;
 - (e) a secreted form of SEQ ID NO:Y or the encoded sequence included in ATCC Deposit No:Z;
 - (f) a full length protein of SEQ ID NO:Y or the encoded sequence included in ATCC Deposit No:Z;
 - (g) a variant of SEQ ID NO:Y;

- (h) an allelic variant of SEQ ID NO:Y; or
 - (i) a species homologue of the SEQ ID NO:Y.
12. (Original) The isolated polypeptide of claim 11, wherein the secreted form or the full length protein comprises sequential amino acid deletions from either the C-terminus or the N-terminus.
13. (Original) An isolated antibody that binds specifically to the isolated polypeptide of claim 11.
- 14.-15. (Cancelled).
16. (Original) The polypeptide produced by claim 15.
17. (Currently Amended) A method for preventing, treating, or ameliorating a medical condition, comprising administering to a mammalian subject a therapeutically effective amount of the polypeptide of claim 11 ~~or the polynucleotide of claim 1.~~
18. (Cancelled).
19. (Original) A method of diagnosing a pathological condition or a susceptibility to a pathological condition in a subject comprising:
 - (a) determining the presence or amount of expression of the polypeptide of claim 11 in a biological sample; and
 - (b) diagnosing a pathological condition or a susceptibility to a pathological condition based on the presence or amount of expression of the polypeptide.
20. (Original) A method for identifying a binding partner to the polypeptide of claim 11 comprising:
 - (a) contacting the polypeptide of claim 11 with a binding partner; and
 - (b) determining whether the binding partner effects an activity of the polypeptide.
- 21.-22. (Cancelled).
23. (Original) The product produced by the method of claim 20.
24. (New) An isolated protein comprising amino acid residues 28 to 303 of SEQ ID NO: 86.
25. (New) The isolated protein of claim 24 which comprises amino acid residues 2 to 303 of SEQ ID NO: 86.

26. (New) The isolated protein of claim 25 which comprises amino acid residues 1 to 303 of SEQ ID NO: 86.
27. (New) The protein of claim 25 which further comprises a polypeptide sequence heterologous to SEQ ID NO: 86.
28. (New) A composition comprising the protein of claim 25 and a carrier.
29. (New) An isolated protein produced by the method comprising:
 - (a) expressing the protein of claim 25 by a cell; and
 - (b) recovering said protein.
30. (New) An isolated protein comprising the amino acid sequence of the secreted portion of the polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224.
31. (New) The isolated protein of claim 30 which comprises the amino acid sequence of the complete polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224, excepting the N-terminal methionine.
32. (New) The isolated protein of claim 30 which comprises the amino acid sequence of the complete polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224.
33. (New) The protein of claim 30 which further comprises a polypeptide sequence heterologous to the complete polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224.
34. (New) A composition comprising the protein of claim 30 and a carrier.
35. (New) An isolated protein produced by the method comprising:
 - (a) expressing the protein of claim 31 by a cell; and
 - (b) recovering said protein.
36. (New) An isolated first polypeptide at least 90% identical to a second polypeptide consisting of amino acid residues 1 to 303 of SEQ ID NO: 86.
37. (New) The isolated polypeptide of claim 36, wherein said first polypeptide is at least 95% identical to said second polypeptide.
38. (New) The polypeptide of claim 36 which further comprises a polypeptide sequence heterologous to SEQ ID NO: 86.
39. (New) A composition comprising the polypeptide of claim 36 and a carrier.
40. (New) An isolated protein produced by the method comprising:
 - (a) expressing the polypeptide of claim 36 by a cell; and

(b) recovering said protein.

41. (New) An isolated first polypeptide at least 90% identical to a second polypeptide consisting of the complete polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224.
42. (New) The isolated polypeptide of claim 41, wherein said first polypeptide is at least 95% identical to said second polypeptide.
43. (New) The polypeptide of claim 41 which further comprises a polypeptide sequence heterologous to the secreted portion of the polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224.
44. (New) A composition comprising the polypeptide of claim 41 and a carrier.
45. (New) An isolated protein produced by the method comprising:
 - (a) expressing the polypeptide of claim 41 by a cell; and
 - (b) recovering said protein.
46. (New) An isolated protein consisting of at least 30 contiguous amino acid residues of amino acid residues 1 to 303 of SEQ ID NO: 86.
47. (New) The isolated protein of claim 46 which consists of at least 50 contiguous amino acid residues of amino acid residues 1 to 303 of SEQ ID NO: 86.
48. (New) The protein of claim 46 which further comprises a polypeptide sequence heterologous to SEQ ID NO: 86.
49. (New) A composition comprising the protein of claim 46 and a carrier.
50. (New) An isolated protein produced by the method comprising:
 - (a) expressing the protein of claim 46 by a cell; and
 - (b) recovering said protein.
51. (New) An isolated protein consisting of at least 30 contiguous amino acid residues of the complete polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224.
52. (New) The isolated protein of claim 51 which consists of at least 50 contiguous amino acid residues of the complete polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224.
53. (New) The protein of claim 51 which further comprises a polypeptide sequence heterologous to the complete polypeptide encoded by the HKGAJ54 cDNA contained in ATCC Deposit No. 209224.
54. (New) A composition comprising the protein of claim 51 and a carrier.

55. (New) An isolated protein produced by the method comprising:
- (a) expressing the protein of claim 51 by a cell; and
 - (b) recovering said protein.